

## Amendments to the Claims

### Claim 1 (currently amended)

1. A system for transferring a hardware independent service request between a client application and a motion control system using a communications network, comprising:

a client build module for building a service request envelope for containing the hardware independent service request, where the hardware independent service request is associated with a service performed by the motion control system, and the client build module transmits the service request envelope ~~may be transmitted~~ across the communications network;

a service request format module for extracting the hardware independent service request from the service request envelope, converting the hardware independent service request into a hardware independent service request method, and ~~transmitting~~ invoking the hardware independent service request method to the motion control system; wherein the motion control system comprises a motion services module that converts the hardware independent service request method into a hardware dependent motion command; and the motion control system operates in response to the hardware dependent motion command to perform the service associated with the service request.

### Claim 2 (new)

2. A system as recited in claim 1, in which the service request format module receives a return value from the motion control system in response to the service request, builds a response envelope containing the return value, and transmits the response envelope to the client application.

**Claim 3 (new)**

3. A system as recited in claim 1, in which the service request format module invokes the service request method on the motion control system across a communications network.

**Claim 4 (new)**

4. A system as recited in claim 1, in which the service request format module invokes the service request method on the motion control system across a process boundary.

**Claim 5 (new)**

5. A system as recited in claim 1, in which the service request format module invokes the service request method on the motion control system within a single process.

**Claim 6 (new)**

6. A system as recited in claim 1, further comprising a packaging module that converts the service request into a service request method.

**Claim 7 (new)**

7. A system as recited in claim 1, further comprising a data format module that converts service request data between a first data format associated with the communications network and a second data format associated with the motion control system.

**Claim 8 (new)**

8. A system as recited in claim 1, further comprising a method discovery module for determining a set of services supported by the motion control system.

**Claim 9 (new)**

9. A system as recited in claim 1, further comprising a data management module between the client build module and the service request format module, where the data management module manages service requests.

**Claim 10 (new)**

10. A system as recited in claim 9, in which the data management module further routes service requests to a database for persistent storage.

**Claim 11 (new)**

11. A system as recited in claim 10, further comprising a data caching module for processing data stored in the database.

**Claim 12 (new)**

12. A system as recited in claim 7, further comprising:  
a data management module between the client build module and the service request format module, where the data management module manages service requests;  
a database for persistently storing services requests; and  
a data caching module for processing data stored in the database.